

# Converting Colors

CIELCh(70, 22.841, 177.012)

Have a look what the booklet for  
CIELCh(70, 22.841, 177.012)  
contains.

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# Color

**CIELCh(70, 23.045, 176.593)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AB7A8
RGB	122, 183, 168
RGB Percent	48%, 72%, 66%
CMY	0.5222, 0.2830, 0.3418
CMYK	0.33, 0.00, 0.08, 0.28
HSL	165°, 30%, 60%
HSV	165°, 33%, 72%
XYZ	31.9586, 40.7494, 43.1511
YIQ	163.0510, -31.5410, -17.5970

# Conversions

## Conversions Part 2

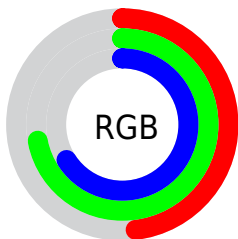
<b>Format</b>	<b>Color</b>
<b>RYB</b>	122, 157, 183
Decimal	8042408
CIELab	70.00, -23.00, 1.37
CIElCh	70, 23.045, 176.593
Yxy	40.7494, 0.2758, 0.3517
Android (android.graphics.Color)	4286232488 (0xFF7AB7A8)
YUV	163.0510, 2.4399, -36.0017
Hunter-Lab	63.8353, -22.3472, 4.6061

# Details

The CIELCh color **70, 23.045, 176.593** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **58, 25.968, 3.629**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 23.068, 176.691**, and **50, 23.188, 176.248** is the 20% darker color. If you saturate the color by 10%, you get **69, 29.185, 175.452**, and if you desaturate by 10%, it is **71, 16.462, 177.647**.

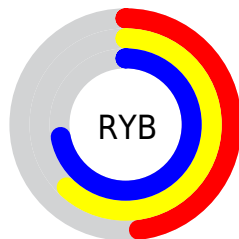
# Distribution



Red (48%)

Green (72%)

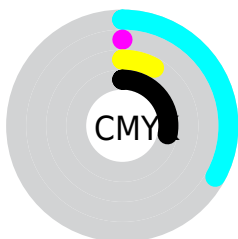
Blue (66%)



Red (48%)

Yellow (62%)

Blue (72%)

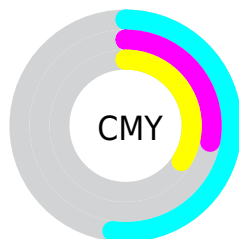


Cyan (33%)

Magenta (0%)

Yellow (8%)

Black (28%)



Cyan (52%)

Magenta (28%)


Yellow (34%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 23.045, 176.593 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 70, 23.045, 176.593 by changing the saturation by 10% instead.





 70, 23.045,  
176.593


 70, 23.045,  
176.593


 100, 23.045,  
176.593


 60, 23.045,  
176.593


 90, 23.045,  
176.593

 50, 23.045,  
176.593

 40, 23.045,  
176.593

 30, 23.045,  
176.593

 20, 23.045,  
176.593

 10, 23.045,  
176.593

 0, 23.045, 176.593

70, 23.045,  
176.593

70, 23.045,  
176.593

69, 29.185,  
175.452

71, 16.462,  
177.647

68, 34.760,  
174.211

72, 9.551, 178.646

68, 39.668,  
172.842

74, 2.423, 179.709

75, 4.829, 0.294

67, 43.830,  
171.323

77, 12.126, 1.184

67, 47.216,  
169.632

79, 19.406, 1.995

81, 26.622, 2.766

66, 49.858,  
167.756

82, 29.075,  
359.745

66, 51.349,  
166.464

82, 29.838,  
355.430



# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



70, 23.045, 176.593



58, 25.968, 3.629

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70, 23.045, 176.593



70, 23.045, 226.593



70, 23.045, 356.593



70, 23.045, 46.593

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



70, 23.046, 176.591



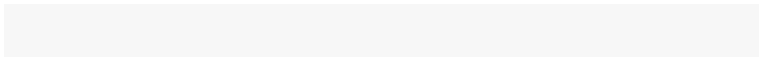
92, 8.863, 178.960



70, 37.536, 135.618



49, 6.087, 178.822



97, 0.011, 296.813



50, 0.007, 296.813





# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



70, 23.046, 176.591



88, 33.515, 175.769



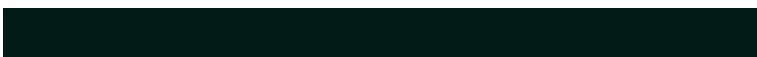
66, 17.187, 227.965



38, 4.082, 179.043



57, 45.393, 166.740



8, 11.995, 172.644



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



58, 25.968, 3.629



70, 38.842, 4.816



61, 21.416, 44.334



36, 4.214, 0.631



32, 62.056, 24.987

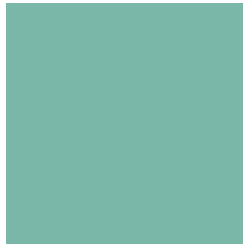


2, 11.032, 4.802



# Previews

## White Background



This preview shows how the CIE LCh color 70, 23.045, 176.593 looks on a white background.

## Color Contrast Check

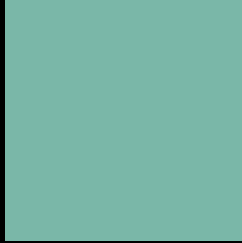
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 70, 23.045, 176.593 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

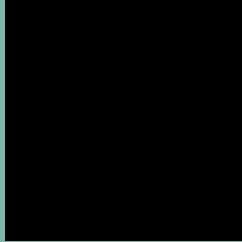
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 23.045, 176.593**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 23.045, 176.593.

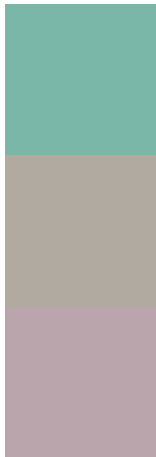


This preview shows how white text looks on a background with the CIELCh color 70, 23.045, 176.593.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**  
70, 23.045, 176.593

**Protanopia**  
70, 5.417, 84.310

**Deuteranopia**  
70, 8.886, 354.708





**Tritanopia**  
70, 18.256, 223.229

# Trichromacy



**Original Color**  
70, 23.045, 176.593

**Protanomaly**  
70, 9.767, 156.419

**Deuteranomaly**  
69, 3.041, 188.912

**Tritanomaly**  
70, 18.295, 204.923

# Monochromacy



**Original Color**  
70, 23.045, 176.593

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
68, 8.638, 180.081

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 23.045, 176.593 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(122, 183, 168)` looks like.

```
.text, #text, p{  
    color:rgb(122, 183, 168)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(122, 183, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 183, 168) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 23.045, 176.593 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(122, 183, 168) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(122, 183, 168) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(122, 183, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 183, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 183, 168);  
box-shadow:4px 4px 4px 4px rgb(122, 183,  
168) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 23.045, 176.593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 183, 168) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(122,  
183, 168) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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